006-23-00001

M/s. C.F.C Infra Projects Pvt. Ltd.

Quality Control Reports

Book - 01

2nd Floor Slab

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2022-10-25-01** **Date: 28-10-22**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 25-10-22

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 269:2015 Ordinary Portland cement Specification ,
IS 4031 (Part 4,5):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6

Date of test : 26-10-22

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.15	–
2	Finess by Air permeablity method (m^2/kg,Min)	282.2	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-10-25-01**	**Date: 23-11-22**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)	
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43	
Customer's Reference	:	BBMP/EE/BTP/WO/53/2022-23	
Date of Receipt	:	25-10-22	
Sample Type	:	Birla Super 53grade	
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6	
Date of test	:	26-10-22	
Environmental Conditions during test	:	Temperature: Humidity:	26°C 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Date: 28-10-22

Lab ID	:	**CP-2022-10-25-01**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer's Reference	:	BBMP/EE/BTP/WO/53/2022-23
Date of Receipt	:	25-10-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	25-10-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	374	374	2.5	97.5	90-100
3	20 mm	6738	7112	47.4	52.6	30-70
4	10 mm	5274	12386	82.6	17.4	10-35
5	4.75 mm	2081	14467	96.4	3.6	0-5
6	Pan	533	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-10-25-01** **Date: 28-10-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.49	_
5	Bulk Density(Compacted) (Kg/l)	1.51	_
6	Water Absorption(%)	0.25	_

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-10-25-01**	**Date: 27-10-22**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)	
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43	
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23	
Date of Receipt	:	25-10-22	
Sample Type/ Size	:	20mm down size coarse aggregate	
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties	
Date of test	:	25-10-22	

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	159	159	3.2	96.8	90-100
3	10 mm	2541	2700	54.0	46.0	25-55
4	4.75 mm	2117	4817	96.3	3.7	0-10
5	Pan	183	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-10-25-01** **Date: 27-10-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	14.8	
3	Specific Gravity	2.62	_
4	Bulk Density(Loose) (Kg/l)	1.50	_
5	Bulk Density(Compacted) (Kg/l)	1.55	_
6	Water Absorption(%)	0.28	_
7	Aggregate crushing Value(%)	26.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	24.3	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-10-25-01** **Date: 27-10-22**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 25-10-22

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 25-10-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	35	35	3.5	96.5	90-100	90-100	90-100	95-100
3	2.36 mm	172	207	20.7	79.3	60-95	75-100	85-100	95-100
4	1.18 mm	116	323	32.3	67.7	30-70	55-90	75-100	90-100
5	600 micron	201	524	52.4	47.6	15-34	35-59	60-79	80-100
6	300 micron	217	741	74.1	25.9	5-20	8-30	12-40	15-50
7	150 micron	183	924	92.4	7.6	0-10	0-10	0-10	0-15
8	Pan	76	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-10-25-01** **Date: 27-10-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.94	–
2	Specific Gravity	2.55	–
3	Material finer than 75 micron(%)	7.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-2022-10-28-01** **Date: 31-10-22**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 28-10-22

Type of Mix : WMM (Wet Mix Macadam)

Source of Sample : Bharath Nagar

Date of test : 28-10-22

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-2022-10-28-01** **Date: 30-10-22**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 28-10-22

Type of Mix : WMM (Wet Mix Macadam)

Source of Sample : Bharath Nagar

Date of test : 28-10-22

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	198	198	1.8	98.2	95-100
22.4	2412	2610	23.7	76.3	60-80
11.2	2365	4975	45.2	54.8	40-60
4.75	1765	6740	61.3	38.7	25-40
2.36	1455	8195	74.5	25.5	15-30
0.6	1658	9853	89.6	10.4	8-22
0.075	798	10651	96.8	3.2	0-5

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-2022-10-28-01**	**Date: 30-10-22**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)	
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43	
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23	
Date of Receipt	:	28-10-22	
Type of Mix	:	WMM (Wet Mix Macadam)	
Source of Sample	:	Bharath Nagar	
Date of test	:	28-10-22	
Oven Dry Weight	:	11000 Grams	

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	201	201	1.8	98.2	95-100
22.4	2399	2600	23.6	76.4	60-80
11.2	2185	4785	43.5	56.5	40-60
4.75	1988	6773	61.6	38.4	25-40
2.36	1658	8431	76.6	23.4	15-30
0.6	1495	9926	90.2	9.8	8-22
0.075	745	10671	97.0	3.0	0-5

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Date: 31-10-22

Lab ID	:	**CP-2022-10-28-01**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23
Date of Receipt	:	28-10-22
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Source of Sample	:	Bharath Nagar
Date of test	:	28-10-22

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

* The results obtained are satisfactory as per standard requirements.

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಆಧಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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End of Report

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-2022-10-28-01** **Date: 30-10-22**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 28-10-22

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Source of Sample : Bharath Nagar

Date of test : 28-10-22

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಧಿಕಾರಿಯವರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-11-10-01** **Date: 14/11/2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 10-11-22

Customer ID : Cement Concrete Pavement -Cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement -Cross Road	M30	07/11/2022	14/11/2022	149.19 X 149.38 X 150.37	22286	8.886	565.0	25.4	25.6
2	Cement Concrete Pavement -Cross Road	M30	07/11/2022	14/11/2022	151.43 X 150.66 X 150.39	22814	8.160	613.9	26.9	
3	Cement Concrete Pavement -Cross Road	M30	07/11/2022	14/11/2022	149.59 X 150.09 X 151.95	22452	8.520	549.7	24.5	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-11-10-01** **Date: 05/12/2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 10-11-22

Customer ID : Cement Concrete Pavement -Cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement -Cross Road	M30	07/11/2022	05/12/2022	151.51 X 149.88 X 149.74	22708	8.552	761.2	33.5	33.4
2	Cement Concrete Pavement -Cross Road	M30	07/11/2022	05/12/2022	150.51 X 149.89 X 151.85	22559	8.696	744.4	33.0	
3	Cement Concrete Pavement -Cross Road	M30	07/11/2022	05/12/2022	150.43 X 149.23 X 151.62	22449	8.666	756.6	33.7	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-11-10-01** **Date: 15/11/2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 10-11-22

Customer ID : Cement Concrete Pavement - Glam shine Beauty parlour Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Glam shine Beauty parlour Road	M30	08/11/2022	15/11/2022	149.62 X 150.73 X 150.36	22553	8.842	573.7	25.4	25.5
2	Cement Concrete Pavement - Glam shine Beauty parlour Road	M30	08/11/2022	15/11/2022	149.77 X 150.63 X 151.92	22559	8.114	604.4	26.8	
3	Cement Concrete Pavement - Glam shine Beauty parlour Road	M30	08/11/2022	15/11/2022	150.25 X 149.91 X 151.38	22524	8.422	546.7	24.3	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಆಯುಕ್ತರು
ಬಿ.ಬಿ.ಎಂ.ಪ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-11-10-01** **Date: 06/12/2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 10-11-22

Customer ID : Cement Concrete Pavement - Glam shine Beauty parlour Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Glam shine Beauty parlour Road	M30	08/11/2022	06/12/2022	150.52 X 149.85 X 151.12	22555	8.626	744.5	33.0	32.7
2	Cement Concrete Pavement - Glam shine Beauty parlour Road	M30	08/11/2022	06/12/2022	150.53 X 151.32 X 150.59	22779	8.362	730.5	32.1	
3	Cement Concrete Pavement - Glam shine Beauty parlour Road	M30	08/11/2022	06/12/2022	151.35 X 151.86 X 151.58	22984	8.875	760.4	33.1	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-11-10-01** **Date: 14/11/2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 10-11-22

Customer ID : Cement Concrete Pavement - KMC Mansion Beside Road (W1459)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - KMC Mansion Beside Road (W1459)	M30	07/11/2022	14/11/2022	149.53 X 151.77 X 150.61	22694	8.538	568.8	25.1	25.3
2	Cement Concrete Pavement - KMC Mansion Beside Road (W1459)	M30	07/11/2022	14/11/2022	150.48 X 151.35 X 151.18	22774	8.452	607.2	26.7	
3	Cement Concrete Pavement - KMC Mansion Beside Road (W1459)	M30	07/11/2022	14/11/2022	151.80 X 149.68 X 151.27	22721	8.763	546.0	24.0	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-11-10-01** **Date: 05/12/2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 10-11-22

Customer ID : Cement Concrete Pavement - KMC Mansion Beside Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - KMC Mansion Beside Road	M30	07/11/2022	05/12/2022	149.56 X 149.81 X 151.71	22405	8.763	740.3	33.0	32.8
2	Cement Concrete Pavement - KMC Mansion Beside Road	M30	07/11/2022	05/12/2022	149.60 X 150.06 X 150.51	22449	8.297	720.3	32.1	
3	Cement Concrete Pavement - KMC Mansion Beside Road	M30	07/11/2022	05/12/2022	149.29 X 151.85 X 149.63	22670	8.263	751.4	33.1	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಡ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-11-10-01** **Date: 15/11/2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd. No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 10-11-22

Customer ID : Cement Concrete Pavement -GLAM Shine Beauty Parlour Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement -GLAM Shine Beauty Parlour Road	M30	08/11/2022	15/11/2022	151.12 X 150.73 X 150.85	22778	8.899	574.2	25.2	25.5
2	Cement Concrete Pavement -GLAM Shine Beauty Parlour Road	M30	08/11/2022	15/11/2022	151.10 X 150.93 X 151.32	22806	8.198	609.3	26.7	
3	Cement Concrete Pavement -GLAM Shine Beauty Parlour Road	M30	08/11/2022	15/11/2022	149.93 X 151.40 X 151.48	22700	8.183	557.2	24.5	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-11-10-01** **Date: 06/12/2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 10-11-22

Customer ID : Cement Concrete Pavement -GLAM Shine Beauty Parlour Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement -GLAM Shine Beauty Parlour Road	M30	08/11/2022	06/12/2022	150.35 X 151.38 X 149.86	22759	8.680	763.6	33.6	33.3
2	Cement Concrete Pavement -GLAM Shine Beauty Parlour Road	M30	08/11/2022	06/12/2022	150.36 X 151.70 X 151.25	22810	8.466	737.7	32.3	
3	Cement Concrete Pavement -GLAM Shine Beauty Parlour Road	M30	08/11/2022	06/12/2022	150.63 X 151.91 X 150.39	22882	8.394	774.7	33.9	

* The results obtained are satisfactory as per standard requirements.

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Lab ID : **CP-2022-11-10-01** **Date: 15/11/2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 10-11-22

Customer ID : Cement Concrete Pavement -Nashimen Rice Mart , Opp Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement -Nashimen Rice Mart , Opp Road	M30	08/11/2022	15/11/2022	151.54 X 151.96 X 151.75	23028	8.434	593.0	25.7	25.5
2	Cement Concrete Pavement -Nashimen Rice Mart , Opp Road	M30	08/11/2022	15/11/2022	150.53 X 150.51 X 151.44	22657	8.876	601.6	26.6	
3	Cement Concrete Pavement -Nashimen Rice Mart , Opp Road	M30	08/11/2022	15/11/2022	149.73 X 151.54 X 151.23	22690	8.540	550.7	24.3	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-11-10-01** **Date: 06/12/2022**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 10-11-22

Customer ID : Cement Concrete Pavement -Nashimen Rice Mart , Opp Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement -Nashimen Rice Mart , Opp Road	M30	08/11/2022	06/12/2022	150.09 X 149.75 X 150.81	22476	8.916	754.6	33.6	33.3
2	Cement Concrete Pavement -Nashimen Rice Mart , Opp Road	M30	08/11/2022	06/12/2022	149.07 X 149.07 X 150.22	22223	8.274	733.2	33.0	
3	Cement Concrete Pavement -Nashimen Rice Mart , Opp Road	M30	08/11/2022	06/12/2022	149.30 X 151.35 X 149.88	22596	8.669	756.6	33.5	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-2023-01-27-01** **Date: 30-01-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 27-01-23

Type of Mix : WMM (Wet Mix Macadam)

Source of Sample : Kaveri Layout

Date of test : 27-01-23

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	318	318	2.9	97.1	95-100
22.4	3745	4063	36.9	63.1	60-80
11.2	2152	6215	56.5	43.5	40-60
4.75	1865	8080	73.5	26.5	25-40
2.36	1145	9225	83.9	16.1	15-30
0.6	788	10013	91.0	9.0	8-22
0.075	758	10771	97.9	2.1	0-5

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-2023-01-27-01** **Date: 29-01-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 27-01-23

Type of Mix : WMM (Wet Mix Macadam)

Source of Sample : Kaveri Layout

Date of test : 27-01-23

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	214	214	1.9	98.1	95-100
22.4	2345	2559	23.3	76.7	60-80
11.2	2044	4603	41.8	58.2	40-60
4.75	2451	7054	64.1	35.9	25-40
2.36	1547	8601	78.2	21.8	15-30
0.6	1201	9802	89.1	10.9	8-22
0.075	702	10504	95.5	4.5	0-5

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-2023-01-27-01** **Date: 29-01-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 27-01-23

Type of Mix : WMM (Wet Mix Macadam)

Source of Sample : Kaveri Layout

Date of test : 27-01-23

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	245	245	2.2	97.8	95-100
22.4	2155	2400	21.8	78.2	60-80
11.2	2358	4758	43.3	56.7	40-60
4.75	2388	7146	65.0	35.0	25-40
2.36	1798	8944	81.3	18.7	15-30
0.6	1044	9988	90.8	9.2	8-22
0.075	689	10677	97.1	2.9	0-5

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF AGGEGRATE IMPACT VALUE

IS: 2386 Part IV

Lab ID	:	**CP-2023-01-27-01**	**Date: 30-01-23**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)	
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43	
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23	
Date of Receipt	:	27-01-23	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Source of Sample	:	Kaveri Layout	
Date of test	:	27-01-23	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	301.7	301.7
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	72.5	73.8
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	228.6	227.3
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.6	0.6
5	Aggregate impact value	(B/A)*100	24.0	24.5
6	Aggregate impact value (Mean of two tests)	Pecentage	24.2	

* The results obtained are satisfactory as per standard requirements.

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-2023-01-27-01**	**Date: 30-01-23**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)	
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43	
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23	
Date of Receipt	:	27-01-23	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Source of Sample	:	Kaveri Layout	
Date of test	:	27-01-23	

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.1%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.6%	
Combined Flakiness and Elongation Index for WMM	24.7%	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : **CP-2023-01-31-01** **Date: 02-02-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 31-01-23

Type of Mix : GSB (Granular Sub Base)

Source of Sample : Mariyannana Palya

Date of Test : 31-01-23

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	997	997	9.97	90.03	80-100
26.5	2179	3176	31.76	68.24	55-90
9.5	1292	4468	44.68	55.32	35-65
4.75	1490	5958	59.58	40.42	25-50
2.36	2200	8158	81.58	18.42	10-20
0.85	1400	9558	95.58	4.42	2-10
0.425	150	9708	97.08	2.92	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : **CP-2023-01-31-01** **Date: 02-02-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 31-01-23

Type of Mix : GSB (Granular Sub Base)

Source of Sample : Anjanadri Layout

Date of Test : 31-01-23

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	995	995	9.95	90.05	80-100
26.5	2170	3165	31.65	68.35	55-90
9.5	1296	4461	44.61	55.39	35-65
4.75	1501	5962	59.62	40.38	25-50
2.36	2150	8112	81.12	18.88	10-20
0.85	1544	9656	96.56	3.44	2-10
0.425	161	9817	98.17	1.83	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-2023-02-02-01** **Date: 04-02-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 02-02-23

Type of Mix : WMM (Wet Mix Macadam)

Source of Sample : Mariyannana Palya

Date of test : 02-02-23

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	302	302	2.7	97.3	95-100
22.4	3644	3946	35.9	64.1	60-80
11.2	2047	5993	54.5	45.5	40-60
4.75	1985	7978	72.5	27.5	25-40
2.36	1165	9143	83.1	16.9	15-30
0.6	769	9912	90.1	9.9	8-22
0.075	702	10614	96.5	3.5	0-5

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-2023-02-02-01** **Date: 04-02-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 02-02-23

Type of Mix : WMM (Wet Mix Macadam)

Source of Sample : Mariyannana Palya

Date of test : 02-02-23

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	240	240	2.2	97.8	95-100
22.4	2758	2998	27.3	72.7	60-80
11.2	2445	5443	49.5	50.5	40-60
4.75	2365	7808	71.0	29.0	25-40
2.36	1038	8846	80.4	19.6	15-30
0.6	988	9834	89.4	10.6	8-22
0.075	645	10479	95.3	4.7	0-5

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಡ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬೆಂಗಳೂರು-23

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-2023-02-02-01** **Date: 04-02-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 02-02-23

Type of Mix : WMM (Wet Mix Macadam)

Source of Sample : Mariyannana Palya

Date of test : 02-02-23

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	221	221	2.0	98.0	95-100
22.4	2475	2696	24.5	75.5	60-80
11.2	2345	5041	45.8	54.2	40-60
4.75	2013	7054	64.1	35.9	25-40
2.36	1147	8201	74.6	25.4	15-30
0.6	1065	9266	84.2	15.8	8-22
0.075	1268	10534	95.8	4.2	0-5

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಧಿಕಾರಿಗಳು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-2023-02-02-01**	**Date: 04-02-23**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)	
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43	
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23	
Date of Receipt	:	02-02-23	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Source of Sample	:	Mariyannana Palya	
Date of test	:	02-02-23	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	303.5	303.5
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	78.5	75.6
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	224.8	227.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.2	0.4
5	Aggregate impact value	(B/A)*100	25.9	24.9
6	Aggregate impact value (Mean of two tests)	Pecentage	25.4	

* The results obtained are satisfactory as per standard requirements.

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-2023-02-02-01** **Date: 04-02-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 02-02-23

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Source of Sample : Mariyannana Palya

Date of test : 02-02-23

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.9%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.4%	
Combined Flakiness and Elongation Index for WMM	24.3%	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಧಿಯಂತರರು
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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-2023-02-02-01** **Date: 04-02-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 02-02-23

Type of Mix : WMM (Wet Mix Macadam)

Source of Sample : Bharath Nagar

Date of test : 02-02-23

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	255	255	2.3	97.7	95-100
22.4	3547	3802	34.6	65.4	60-80
11.2	2155	5957	54.2	45.8	40-60
4.75	1765	7722	70.2	29.8	25-40
2.36	1455	9177	83.4	16.6	15-30
0.6	725	9902	90.0	10.0	8-22
0.075	756	10658	96.9	3.1	0-5

* The results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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TEST RESULTS OF GRADATION FOR WMM

Date: 04-02-23

Lab ID	:	**CP-2023-02-02-01**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23
Date of Receipt	:	02-02-23
Type of Mix	:	WMM (Wet Mix Macadam)
Source of Sample	:	Bharath Nagar
Date of test	:	02-02-23
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	258	258	2.3	97.7	95-100
22.4	2398	2656	24.1	75.9	60-80
11.2	2178	4834	43.9	56.1	40-60
4.75	2248	7082	64.4	35.6	25-40
2.36	1285	8367	76.1	23.9	15-30
0.6	1265	9632	87.6	12.4	8-22
0.075	958	10590	96.3	3.7	0-5

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಧಿಕಾರಿಯವರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-2023-02-02-01** **Date: 04-02-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 02-02-23

Type of Mix : WMM (Wet Mix Macadam)

Source of Sample : Bharath Nagar

Date of test : 02-02-23

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	302	302	2.7	97.3	95-100
22.4	2475	2777	25.2	74.8	60-80
11.2	2745	5522	50.2	49.8	40-60
4.75	2145	7667	69.7	30.3	25-40
2.36	1258	8925	81.1	18.9	15-30
0.6	987	9912	90.1	9.9	8-22
0.075	898	10810	98.3	1.7	0-5

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಧಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ.

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-2023-02-02-01** **Date: 04-02-23**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23
Date of Receipt	:	02-02-23
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Source of Sample	:	Bharath Nagar
Date of test	:	02-02-23

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	13.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.9%	
Combined Flakiness and Elongation Index for WMM	25.7%	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬಂಗಳೂರು-24

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-2023-02-03-01** **Date: 06-02-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 03-02-23

Type of Mix : WMM (Wet Mix Macadam)

Source of Sample : Anjanadri Layout

Date of test : 03-02-23

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	248	248	2.3	97.7	95-100
22.4	3540	3788	34.4	65.6	60-80
11.2	2045	5833	53.0	47.0	40-60
4.75	1765	7598	69.1	30.9	25-40
2.36	1265	8863	80.6	19.4	15-30
0.6	765	9628	87.5	12.5	8-22
0.075	845	10473	95.2	4.8	0-5

* The results obtained are satisfactory as per standard requirements.

ಸದಾಯುಕ್ತ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-2023-02-03-01** **Date: 05-02-23**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23
Date of Receipt	:	03-02-23
Type of Mix	:	WMM (Wet Mix Macadam)
Source of Sample	:	Anjanadri Layout
Date of test	:	03-02-23
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	199	199	1.8	98.2	95-100
22.4	2400	2599	23.6	76.4	60-80
11.2	2762	5361	48.7	51.3	40-60
4.75	2200	7561	68.7	31.3	25-40
2.36	1201	8762	79.7	20.3	15-30
0.6	950	9712	88.3	11.7	8-22
0.075	840	10552	95.9	4.1	0-5

* The results obtained are satisfactory as per standard requirements.

ಪರಾಮರ್ಶಕ ಅಧಿಕಾರಿಗಳು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-2023-02-03-01**	**Date: 05-02-23**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)	
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43	
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23	
Date of Receipt	:	03-02-23	
Type of Mix	:	WMM (Wet Mix Macadam)	
Source of Sample	:	Anjanadri Layout	
Date of test	:	03-02-23	
Oven Dry Weight	:	11000 Grams	

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	230	230	2.1	97.9	95-100
22.4	2501	2731	24.8	75.2	60-80
11.2	2743	5474	49.8	50.2	40-60
4.75	2010	7484	68.0	32.0	25-40
2.36	1304	8788	79.9	20.1	15-30
0.6	830	9618	87.4	12.6	8-22
0.075	960	10578	96.2	3.8	0-5

* The results obtained are satisfactory as per standard requirements.

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-2023-02-03-01** **Date: 06-02-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 03-02-23

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Source of Sample : Anjanadri Layout

Date of test : 03-02-23

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.9%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	24.4%	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-2023-02-04-01** **Date: 06-02-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 04-02-23

Type of Mix : WMM (Wet Mix Macadam)

Source of Sample : Hegade Nagar

Date of test : 04-02-23

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	257	257	2.3	97.7	95-100
22.4	2855	3112	28.3	71.7	60-80
11.2	2145	5257	47.8	52.2	40-60
4.75	1862	7119	64.7	35.3	25-40
2.36	1365	8484	77.1	22.9	15-30
0.6	1065	9549	86.8	13.2	8-22
0.075	999	10548	95.9	4.1	0-5

* The results obtained are satisfactory as per standard requirements.

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-2023-02-04-01**	**Date: 06-02-23**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)	
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43	
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23	
Date of Receipt	:	04-02-23	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Source of Sample	:	Hegade Nagar	
Date of test	:	04-02-23	

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.7%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.4%	
Combined Flakiness and Elongation Index for WMM	24.1%	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON BITUMEN

Lab ID : **CP-2023-02-21-01** **Date: 23-02-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer's Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 21-02-23

Sample Type : Bitumen

Reference to BIS codes : IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)

Date of test : 21-02-23

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**62**	45 min
2	Softening Point, °C	**51.2**	Min. 47°C
3	Ductility, cm	**98**	Min. 40cm
4	Flash point, °C	**250**	Min. 220°C
	Fire point, °C	**262**	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : **CP-2023-03-08-01** **Date: 10-02-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 08-02-23

Type of Mix : BM-Plant (Bituminous Macadam)

Date of test 08-02-23

Weight of Sample(gm) : 5000

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0	100	100
19	165	165	3.3	96.7	90-100
13.2	512	677	13.5	86.5	56-88
4.75	2759	3436	68.7	31.3	16-36
2.36	911	4347	86.9	13.1	4-19
0.3	358	4705	94.1	5.9	2-10
0.075	232	4937	98.7	1.3	0-8
PAN	63	5000	100.0	0.0	0

* The results obtained are satisfactory as per standard requirements.

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS MACADAM

Lab ID : **CP-2023-03-08-01** **Date: 11-02-23**

Project Name : Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)

Agency : M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43

Customer Reference : BBMP/EE/BTP/WO/53/2022-23

Date of Receipt : 08-02-23

Type of Mix : BM (Bituminous Macadam)

Date of test : 08-02-23

Table 500-6 : Physical Requirements fo Coarse Aggregate for Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	13.8	Combined Flakiness & Elongation Index for BM is Maximum 35%	IS:2386 Part I
	Elongation Index	7.2		
Strength	Aggregate Impact Value	25.2	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.51	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.17	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-2023-03-08-01**	**Date: 11-02-23**
Project Name	:	Improvements and Restoration of Roads in Ward No. 06 (Package 02)(Package Consists of 11 Works)	
Agency	:	M/S CGC Infra Projects Pvt. Ltd, No:4 AC-402, 1st Floor, Kammanahalli Main Road, HRBR Layout, 2nd Block, Kalyananagar, Bangalore-43	
Customer Reference	:	BBMP/EE/BTP/WO/53/2022-23	
Date of Receipt	:	08-02-23	
Type of Mix	:	BM(Bitumnous Macadam)	
Date of test	:	08-02-23	

Type of Binder	:	60/70
% of Binder Used	:	3.4%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	6.8 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

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